



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

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Project #: 00U0577-1
Report #: 001115B1
Date & Time: 11/15/00 9:48 AM
Test Engr: Steve Cheng

SL

Company: MATEL MOUNT LAUREL
EUT Description: 27MHz R/C TRANSMITTER
Test Configuration: EUT ONLY
Type of Test: FCC PART 15.227
Mode of Operation: CONTINUOUSLY TRANSMITTING CONTROL CODE

☐ A-Site

☒ B-Site

☐ C-Site

☐ F-Site

6 Worst Data

Descending

Freq.	Reading	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
TEMP 13 C, HUMIDITY 80% ---- 9:40 AM											
CAL SYSTEM											
SYSTEM OVER-LOAD TEST, SELECT ONE OF THE HIGHEST RADIO STATION											
94.555M - 116.4 dB uV. ADD 10 dB ATT SIGNAL REDUCE TO 107.6dB uV (SYSTEM OK)											
START TESTING WITH ANT SET TO VERTICAL POL											

CONDUCT PRELIMINARY TEST TO DETERMINE THE WORST CASE											
KEY 1 & KEY 2 BOTH PRESSED DOWN IS FOUND TO GENERATE SLIGHTLY MORE EMISSION											
FUNDAMENTAL FREQUENCY = 27.1466MHz											
Y AXIS											
54.29	52.00	5.76	1.66	29.48	29.94	40.00	-10.06	3mV	0.00	1.20	P
81.44	56.90	7.09	2.02	29.42	36.59	40.00	-3.41	3mV	0.00	1.20	P
108.59	56.70	10.69	2.32	29.31	40.40	43.50	-3.10	3mV	0.00	1.20	P
135.74	52.70	12.43	2.62	29.21	38.54	43.50	-4.96	3mV	0.00	1.20	P
162.88	52.70	9.85	2.92	29.12	36.35	43.50	-7.15	3mV	0.00	1.20	P
217.18	52.50	10.51	3.42	28.83	37.60	46.00	-8.40	3mV	0.00	1.20	P
244.32	53.30	12.40	3.66	28.67	40.69	46.00	-5.31	3mV	0.00	1.20	P
271.47	56.40	13.09	3.92	28.59	44.82	46.00	-1.18	3mV	0.00	1.20	P
54.29	51.70	6.92	1.66	29.48	30.80	40.00	-9.20	3mH	0.00	1.00	P
108.59	51.50	10.51	2.32	29.31	35.02	43.50	-8.48	3mH	0.00	1.20	P
135.74	51.50	11.64	2.62	29.21	36.54	43.50	-6.96	3mH	0.00	1.20	P
190.03	51.70	9.00	3.19	28.97	34.92	43.50	-8.58	3mH	0.00	1.20	P
271.47	53.40	13.22	3.92	28.59	41.95	46.00	-4.05	3mH	0.00	1.20	P
COMPLETED Y AXIS SERCH											

*** RE-CAL SYSTEM ***											

*** X AXIS ***											
54.29	40.10	6.92	1.66	29.48	19.20	40.00	-20.80	3mH	0.00	1.00	P

81.44	34.40	7.18	2.02	29.42	14.18	40.00	-25.82	3mH	0.00	1.00	P
108.59	38.20	10.51	2.32	29.31	21.72	43.50	-21.78	3mH	0.00	1.00	P
135.74	38.40	11.64	2.62	29.21	23.44	43.50	-20.06	3mH	0.00	2.00	P
217.18	42.80	10.03	3.42	28.83	27.42	46.00	-18.58	3mH	0.00	1.50	P
271.47	40.00	13.22	3.92	28.59	28.55	46.00	-17.45	3mH	0.00	1.50	P
54.29	46.60	5.76	1.66	29.48	24.54	40.00	-15.46	3mV	0.00	1.00	P
STRONG AMBIENT WHEN ANT HIGHT GO OVER 1.5M											
81.44	50.70	7.09	2.02	29.42	30.39	40.00	-9.61	3mV	0.00	2.00	P
135.74	40.90	12.43	2.62	29.21	26.74	43.50	-16.76	3mV	0.00	1.50	P
190.02	45.30	9.67	3.19	28.97	29.19	43.50	-14.31	3mV	0.00	1.00	P
271.47	35.90	13.09	3.92	28.59	24.32	46.00	-21.68	3mV	0.00	1.50	P
*** Z AXIS ***											
54.29	41.20	5.76	1.66	29.48	19.14	40.00	-20.86	3mV	90.00	2.50	P
81.44	37.50	7.09	2.02	29.42	17.19	40.00	-22.81	3mV	90.00	2.00	P
190.02	41.20	9.67	3.19	28.97	25.09	43.50	-18.41	3mV	90.00	2.00	P
271.47	36.20	13.09	3.92	28.59	24.62	46.00	-21.38	3mV	90.00	2.00	P
54.29	42.10	6.92	1.66	29.48	21.20	40.00	-18.80	3mH	0.00	2.00	P
81.44	40.80	7.18	2.02	29.42	20.58	40.00	-19.42	3mH	0.00	2.00	P
135.74	39.20	11.64	2.62	29.21	24.24	43.50	-19.26	3mH	0.00	2.00	P
190.02	45.30	9.00	3.19	28.97	28.52	43.50	-14.98	3mH	0.00	2.00	P
217.17	40.00	10.03	3.42	28.83	24.62	46.00	-21.38	3mH	0.00	2.00	P
244.32	37.90	12.25	3.66	28.67	25.13	46.00	-20.87	3mH	0.00	1.00	P
271.47	40.10	13.22	3.92	28.59	28.65	46.00	-17.35	3mH	0.00	1.00	P
COMPLETED Z-AXIS SEARCH											
Total data #: 35											

V.2b

*** FUNDAMENTAL SIGNAL STRENGTH ***
WITH NEW BATTERY

27.15	68.30	9.00	1.21	0.00	78.51	80.00	-1.49	3mV	0.00	1.00	P
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<< Main Sheet

Freq.	Reading	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
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271.47	56.40	13.09	3.92	28.59	44.82	46.00	-1.18	3mV	0.00	1.20	P
108.59	56.70	10.69	2.32	29.31	40.40	43.50	-3.10	3mV	0.00	1.20	P
81.44	56.90	7.09	2.02	29.42	36.59	40.00	-3.41	3mV	0.00	1.20	P
271.47	53.40	13.22	3.92	28.59	41.95	46.00	-4.05	3mH	0.00	1.20	P
135.74	52.70	12.43	2.62	29.21	38.54	43.50	-4.96	3mV	0.00	1.20	P
244.32	53.30	12.40	3.66	28.67	40.69	46.00	-5.31	3mV	0.00	1.20	P
6 Worst Data											

